



# **NEW LIFE FOR TEXAS CARES**

## **CARDIAC ARREST REGISTRY TO ENHANCE SURVIVAL**

Adapted from Presentation to Texas GETAC  
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# TX-CARES COMMITTEE



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**60 people will suffer a cardiac arrest today in Texas.**

**One cardiac arrest will occur while I am  
presenting here**

**That individual's odds of surviving = 1 in 21**



# OHCA SURVIVAL

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## Global Summary

**All Arrests – 6%**

**VF Arrests – 13%**

## North America

**All Arrests – 6%**

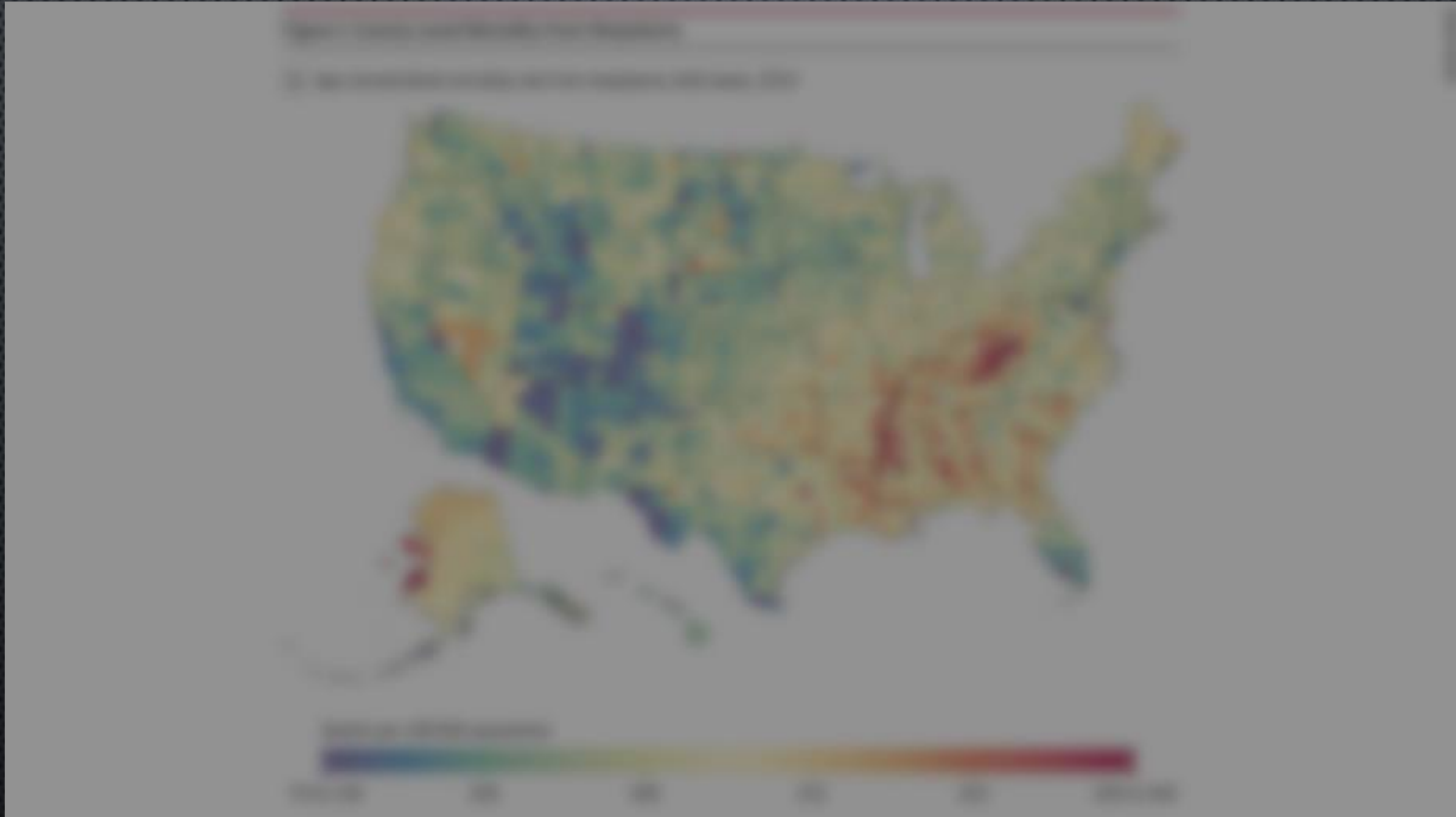
**VF Arrests – 16%**

Overall survival has been stable for almost~40 years as have strong predictors: witnessed, bystander CPR, found in VF, and ROSC

## 5-FOLD DISPARITY IN SURVIVAL BY COMMUNITY

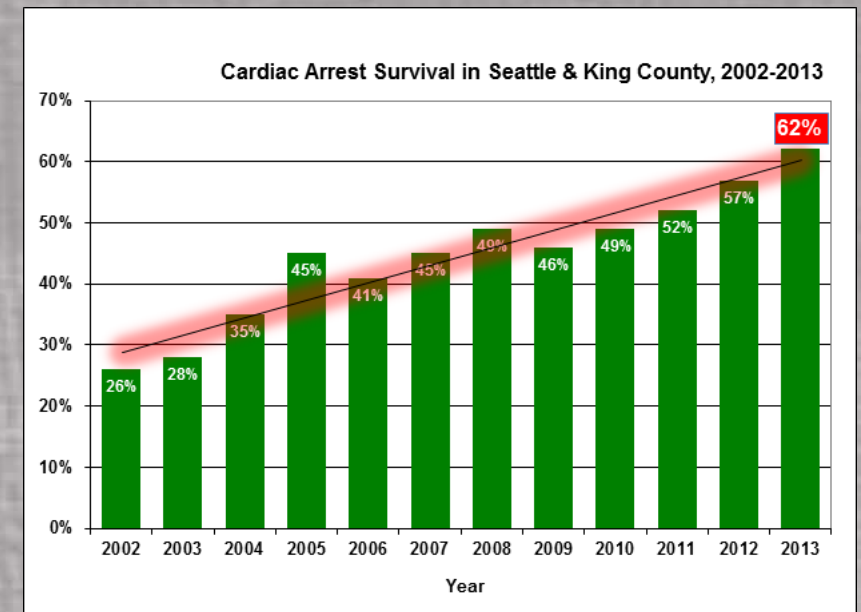
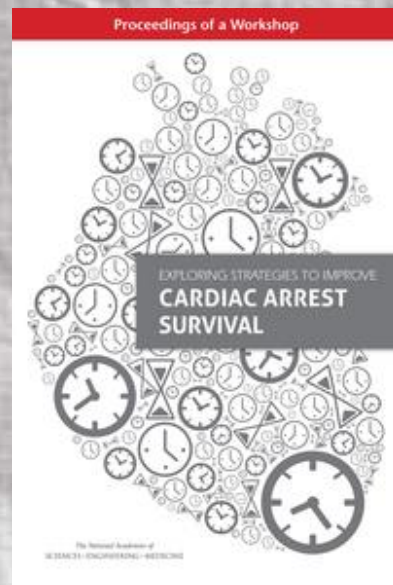


# LARGE RACIAL, GENDER & SOCIOECONOMIC DISPARITIES



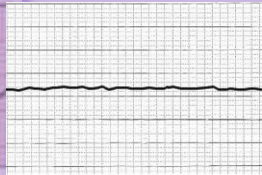
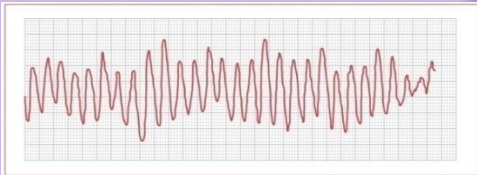
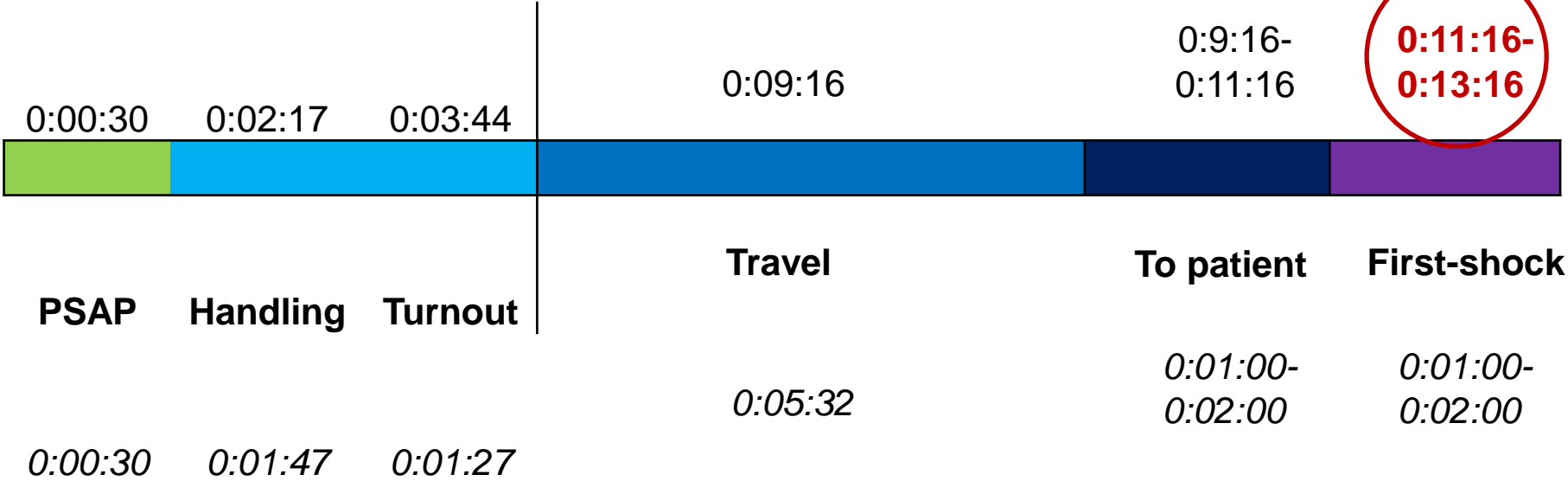
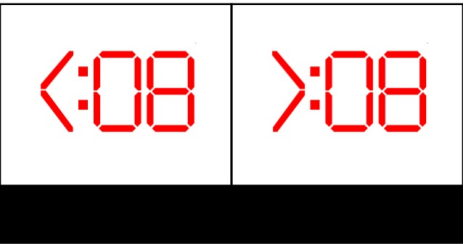


***“Benchmark communities and healthcare systems demonstrate that the ability to save more lives is possible.”***



NATIONAL ACADEMY OF MEDICINE

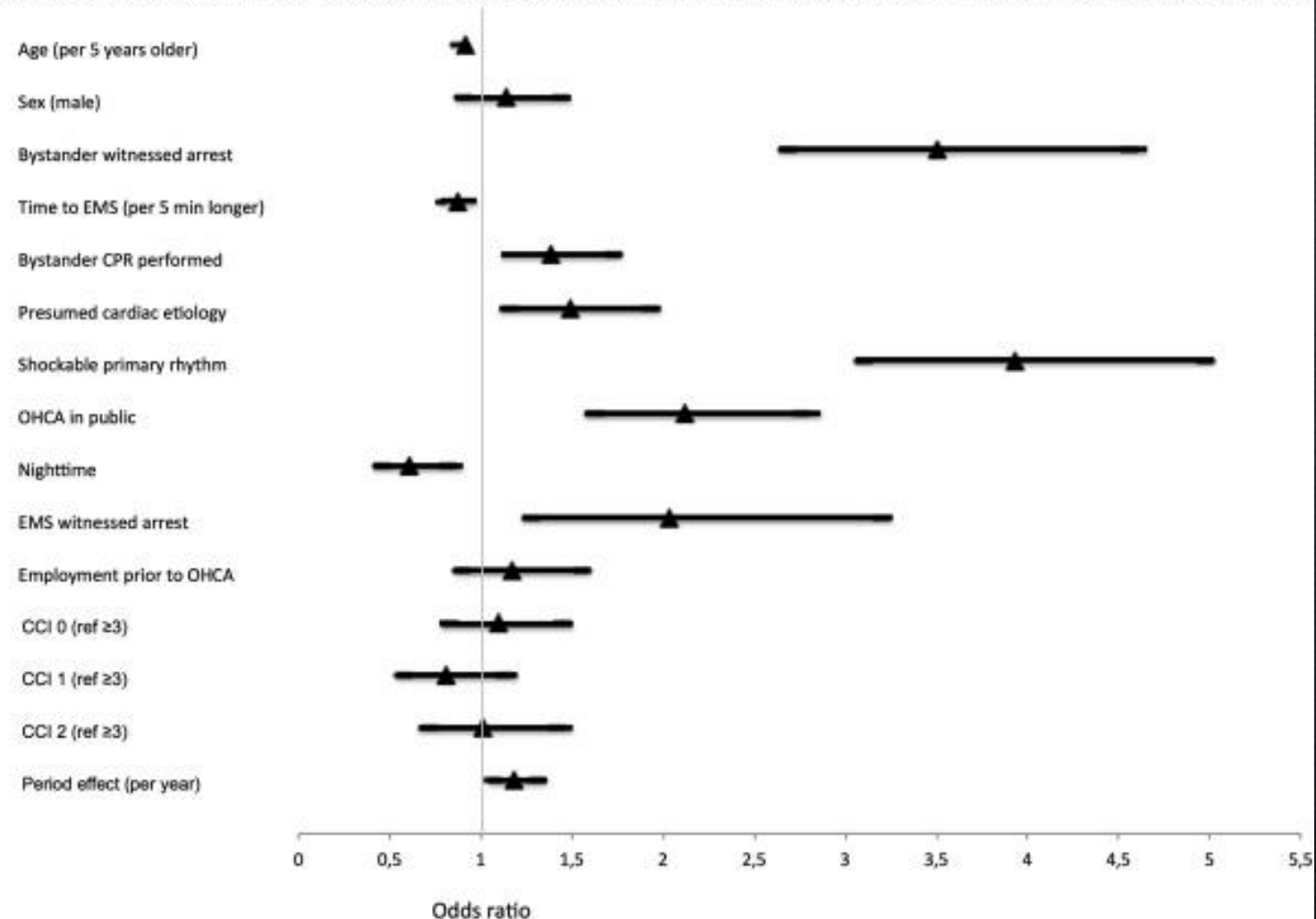
# Typical Urban Response Timeline





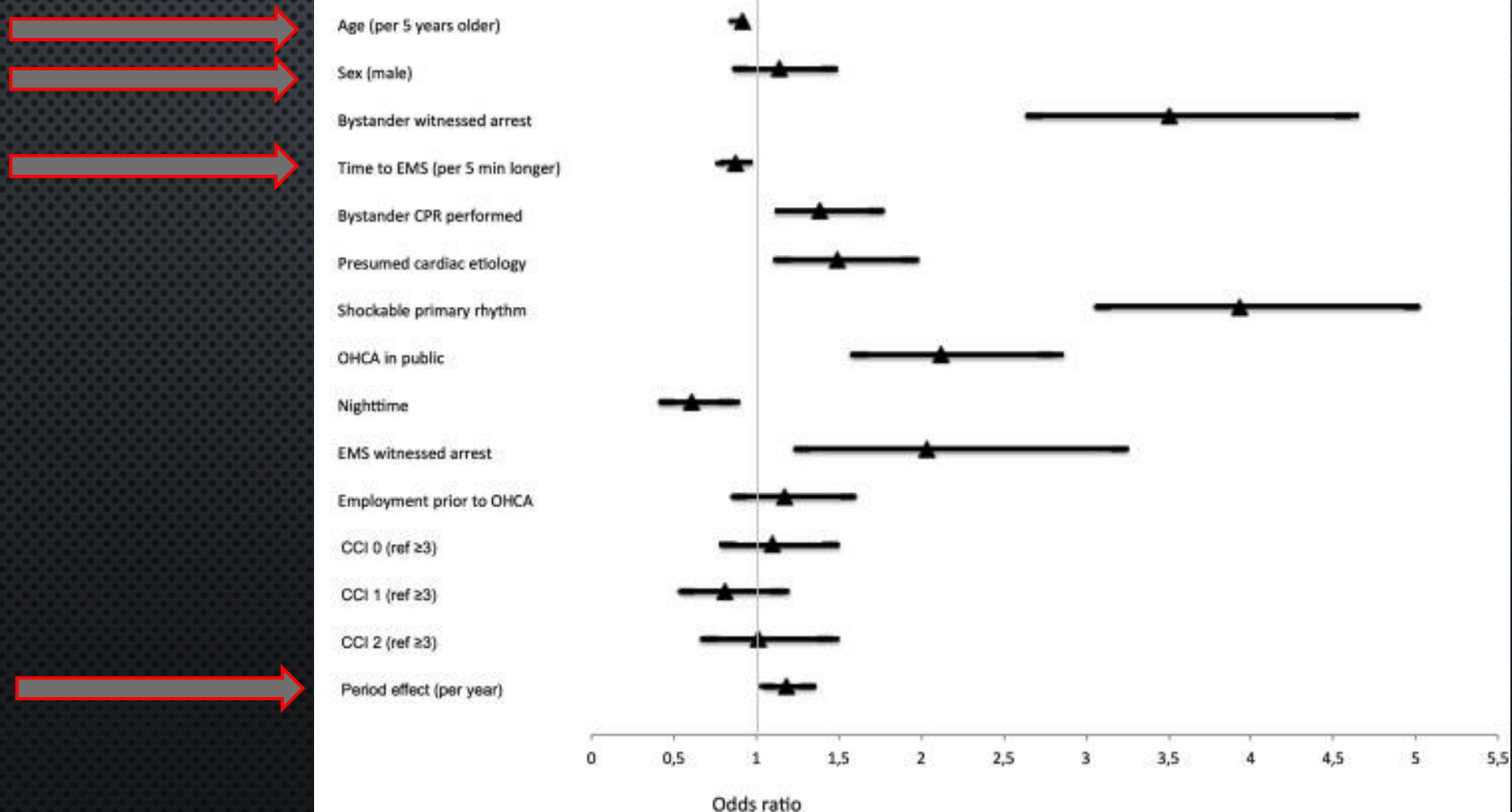
# EVENT FACTORS IMPACTING CARDIAC ARREST SURVIVAL

Association of out-of-hospital and demographic factors with successful resuscitation after out-of-hospital cardiac arrest



# EVENT FACTORS IMPACTING CARDIAC ARREST SURVIVAL

Association of out-of-hospital and demographic factors with successful resuscitation after out-of-hospital cardiac arrest





# MODIFIABLE FACTORS

- ❖ BYSTANDER CPR
- ❖ RESPONSE INTERVAL
- ❖ TIME TO FIRST DEFIBRILLATION
- ❖ TELECOMMUNICATOR CPR
- ❖ EMS CPR QUALITY
- ❖ POST ARREST INTERVENTIONS (TTM, PCI, HEMODYNAMIC SUPPORT, TIMING OF NEURO-PROGNOSTICATION)



# IOM Strategies for Improving Cardiac Arrest Survival

<b>Recommendation 1</b>	Establish a National Cardiac Arrest Registry
<b>Recommendation 2</b>	Foster a Culture of Action Through Public Awareness and Training
<b>Recommendation 3</b>	Enhance the Capabilities and Performance of Emergency Medical Services (EMS) Systems
<b>Recommendation 4</b>	Set National Accreditation Standards Related to Cardiac Arrest for Hospitals & Health Care Systems
<b>Recommendation 5</b>	Adopt Continuous Quality Improvement Programs
<b>Recommendation 6</b>	Accelerate Research on Pathophysiology, New Therapies, and Translation of Science for Cardiac Arrest
<b>Recommendation 7</b>	Accelerate Research on the Evaluation and Adoption of Cardiac Arrest Therapies
<b>Recommendation 8</b>	Create a National Cardiac Arrest Collaborative

Proceedings of a Workshop





## CARES



Texas-CARES measures systems of care for effectively responding to cardiac arrests by using the Cardiac Arrest Registry to Enhance Survival (CARES).

The Cardiac Arrest Registry to Enhance Survival was established by the U.S. Centers for Disease Control and Prevention and Emory University to improve survival from cardiac arrest through out-of-hospital cardiac arrest (OHCA) data collection in the United States. Communities that join CARES commit to entering cardiac arrest data from EMS agencies and hospitals into a national database in order to track their performance confidentially over time and improve the quality of patient care—and ultimately prevent needless deaths.

[Learn More](#)

## Partners

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# MEASURE

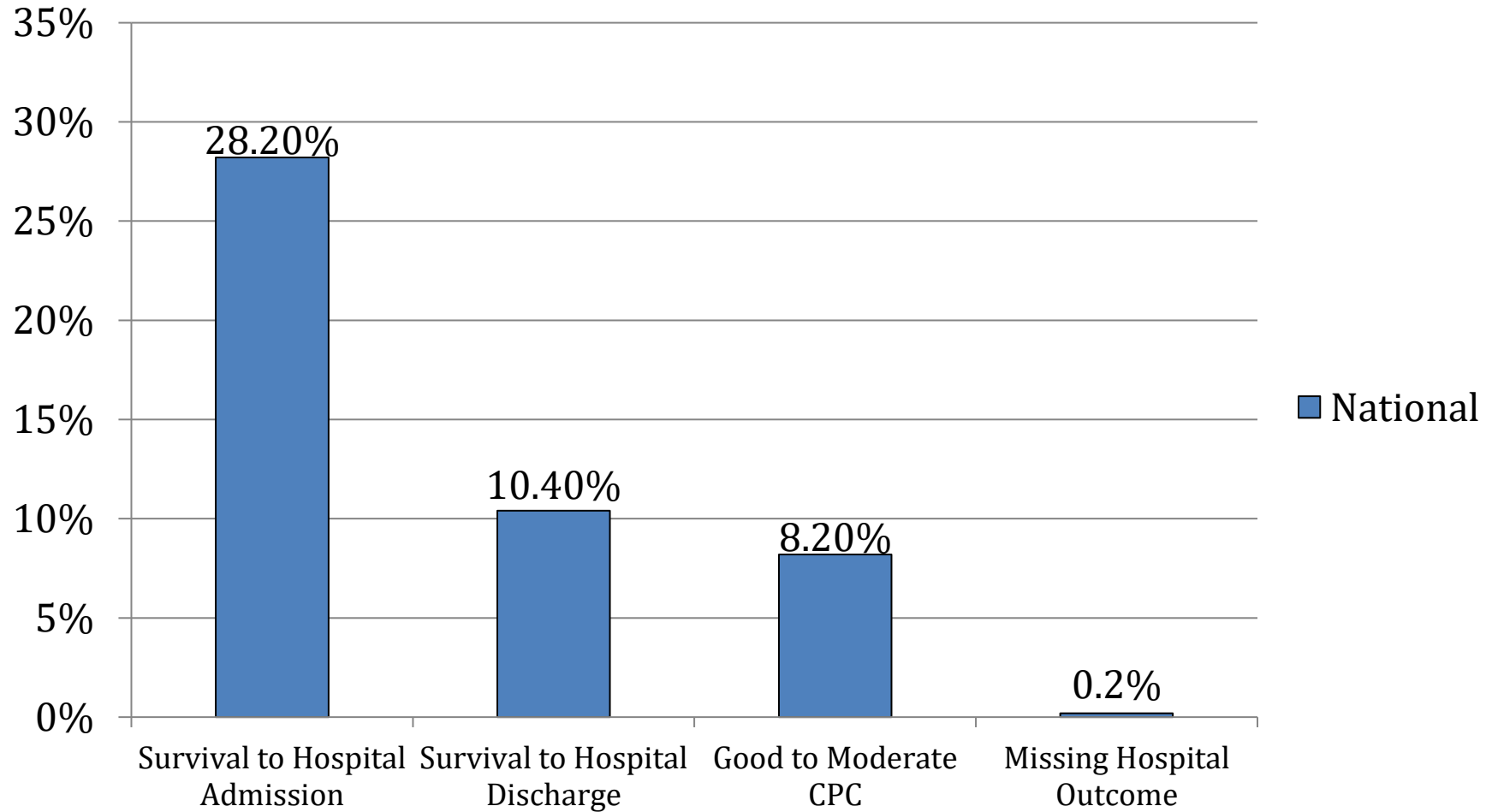
Continuing Education and Quality Improvement



# IMPROVE



# Survival Rates: Overall Survival



# TX★CARES

Improving survival of patients who experience a cardiac arrest in communities across the state of Texas

## About TX★CARES

The Texas-Cardiac Arrest Registry to Enhance Survival (Texas-CARES) Program – a partnership of 9-1-1 centers, EMS agencies and municipal fire departments, hospitals and other healthcare providers, university researchers, and the public – engages all links in the out-of-hospital cardiac arrest (OHCA) chain of survival and promotes a comprehensive, standardized system of OHCA care throughout the state.

## Partners





https://tx-cares.com/

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Improving survival of patients who experience a cardiac arrest in communities across the state of Texas


FEATURED CONTENT




High-Performance CPR Webinar




CPR and Coronavirus




Dr. Huebinger: AHA's Young Investigator



Disparities in Cardiac Arrest



Father John Price: Cardiac Arrest Survivor



About TX \* CARES

The Texas-Cardiac Arrest Registry to Enhance Survival (Texas-CARES) Program – a partnership of 9-1-1 centers, EMS agencies and municipal fire departments, hospitals and other healthcare providers, university researchers, and the public – engages all links in the out-of-hospital cardiac arrest (OHCA) chain of survival and promotes a comprehensive, standardized system of OHCA care throughout the state.

HOW WE'RE HELPING

MEET OUR TEAM

https://www.texascares.org/

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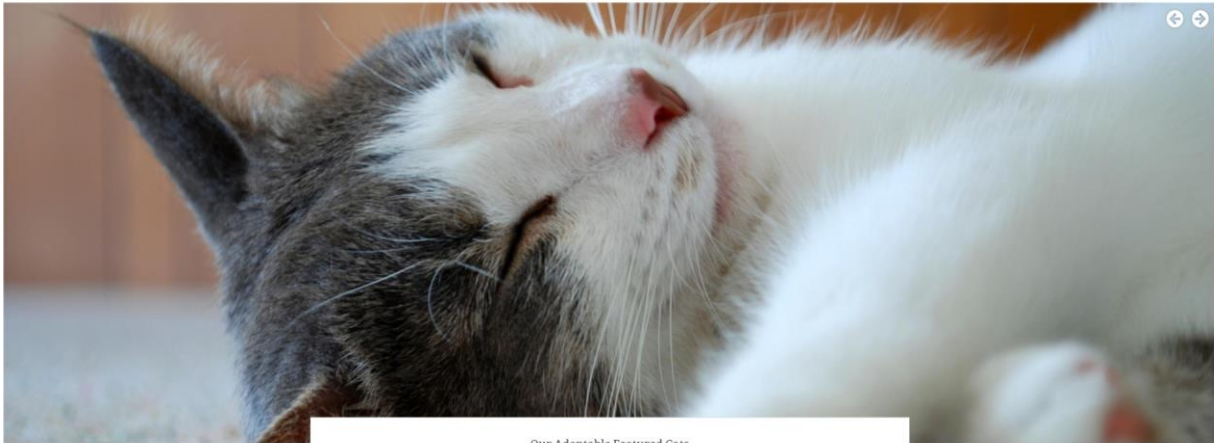
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Texas CARES


Cat Adoption and Rescue

About | Home | Contact Us | Our Cats | Adoption Application | Donate | Resources | Foster | Volunteer | Photos | Online Pay



Our Adoptable Featured Cats





# Current Participation

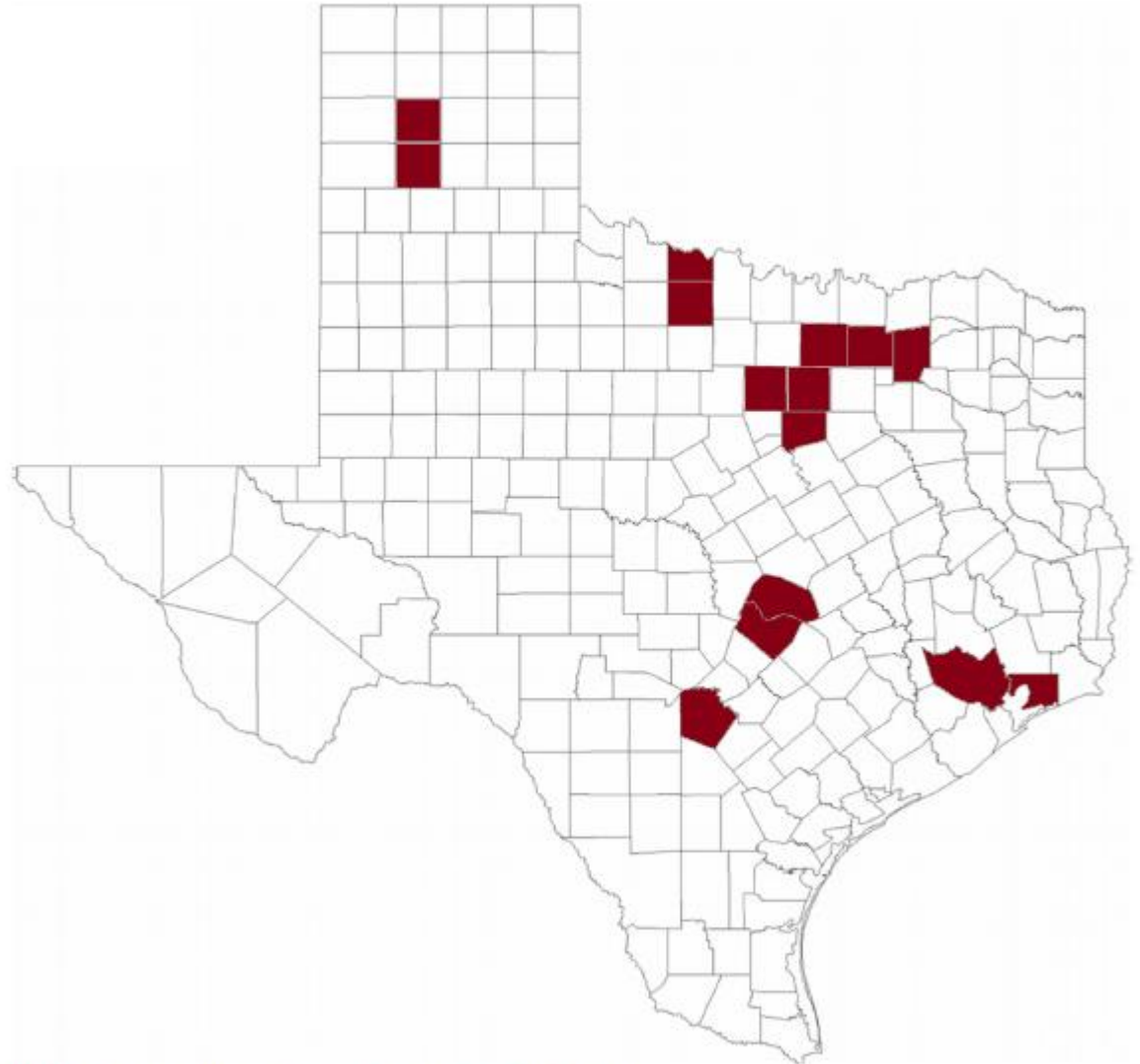
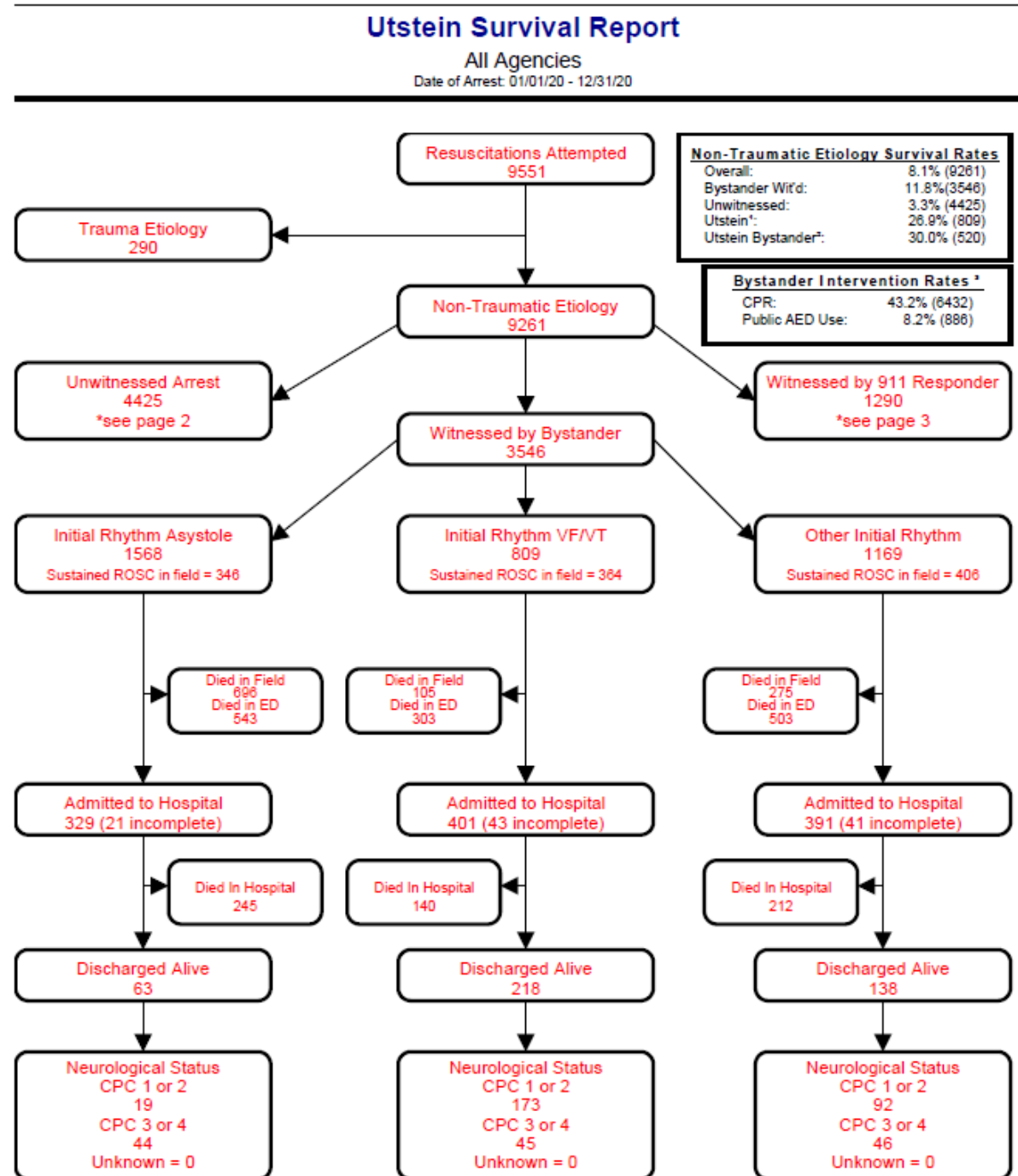


FIGURE 1. Map of counties participating in CARES at the time of the analysis.





# Statewide Reporting



## Frequently Asked Questions

Why join the Texas-CARES Program?



Who uses CARES?



How does data get into CARES?



Who has access to the data?



How to get involved with Texas-CARES?

For more information about getting involved, please [contact us](#) and we will respond as soon as possible.

### Partners

[CARES](#)

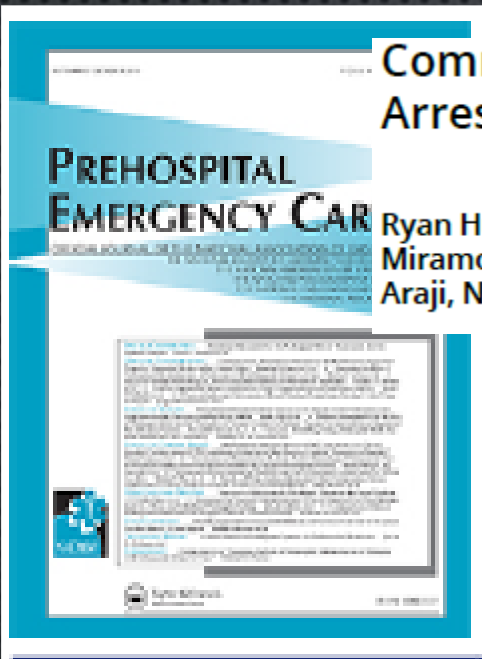
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### Search









## Community Variations in Out-of-Hospital Cardiac Arrest Care and Outcomes in Texas

Ryan Huebinger, Jeff Jarvis, Kevin Schulz, David Persse, Hei Kit Chan, David Miramontes, Veer Vithalani, Gerad Troutman, Robert Greenberg, Rabab Al-Araji, Normandy Villa, Micah Panczyk, Henry Wang & Bentley Bobrow



## Abstract 136: Disparities in Out of Hospital Cardiac Arrest Care and Outcomes in Texas

Ryan Huebinger, Henry Wang, Jeff Jarvis, Cameron Decker, Robert Dickson, Lesley Osborn, Mark Escott, Lynn White, Normandy Villa, Micah Panczyk and Bentley Bobrow

Circulation Volume 142, Issue Suppl\_417 November 2020

\*\*\*Winner - AHA Young Investigator Award\*\*\*



TX★CARES

How can you  
improve the cardiac  
arrest survival rate in  
your community?



Join the Texas-Cardiac Arrest  
Registry to Enhance Survival  
(TX-CARES) to:

- ★ Collaborate with other EMS agencies, hospitals and researchers to increase survival from sudden cardiac arrest.
- ★ Implement evidence-based practices, like the CPR LifeLinks national initiative.
- ★ Measure, evaluate and improve your response to sudden cardiac arrest.

Hover your camera over the QR code or visit [tx-cares.com](https://tx-cares.com) for more information.



CPR**LifeLinks**





McGovern  
Medical School  
Emergency Medicine



**Texas-CARES** in partnership with

**Penn Medicine's TTM Academy** present:

**"Optimizing Cardiac Arrest Survival with State-of-the-Art Post-Arrest Care"**



**SAVE THE DATE!**

**When:** January 15th, 0800-3:00 PM

**Where:** MD Anderson Simulation Center, Houston

**What:** Didactic and Hands-On Scenario-Based Simulation training

**Who:** Nurses, Paramedics, Physicians involved in cardiac chain of survival



# SAVING LIVES IN TEXAS

- **SYSTEM APPROACH OF HIGH QUALITY, INTEGRATED CARE**
- **CONTINUOUS CPR PROCESS MEASUREMENT & QUALITY IMPROVEMENT**
- **COMBINING INNOVATION AND OUTCOME EVALUATION**
- **COMMITMENT TO EXCELLENCE**

## SUSTAINABILITY

- ❖ SHARED PARTNERSHIP IN LONG TERM SUCCESS OF TX-CARES
- ❖ EACH RAC WILL HELP SUPPORT THEIR REGION PARTICIPATION
- ❖ COMMUNITY STANDARDIZED MEASUREMENT AND IMPROVEMENT STRATEGY
- ❖ LARGER ORGANIZATIONS ENABLES ALL COMMUNITIES TO BENEFIT



IF YOU WANT TO GO FAR, GO TOGETHER.

- African Proverb







FOR MORE INFORMATION:

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**DIRECTOR OF IMPLEMENTATION SCIENCE**

**TEXAS CARES STATE COORDINATOR**

**MCGOVERN MEDICAL SCHOOL – DEPARTMENT OF EMERGENCY MEDICINE**

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